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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,988	11/12/2003	Ljupco Kocarev	2110-85-3	7343
	7590 10/02/2007 ACKSON HALEY LLP		EXAM	INER
Suite. 350		NGO, CHUONG D		
155-108th Avenue N.E. Bellevue, WA 98004-5973			ART UNIT	PAPER NUMBER
Benevue, Willyood 19919			2193	
			MAIL DATE	DELIVERY MODE
			10/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)				
Office Astion Comment	10/712,988	KOCAREV ET AL.				
Office Action Summary	Examiner	Art Unit				
	Chuong D. Ngo	2193				
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perio Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a red d will apply and will expire SIX (6) MON ate, cause the application to become AB	CATION. eply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>05</u>	Responsive to communication(s) filed on <u>05 July 2007</u> .					
2a)⊠ This action is FINAL . 2b)□ Th	This action is FINAL . 2b) ☐ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
 4) Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 13 and 14 is/are allowed. 6) Claim(s) 1-3,5-7 and 15-27 is/are rejected. 7) Claim(s) 4 and 8-14 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre	ccepted or b) objected to to the drawing (s) be held in abeyant oction is required if the drawing (ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the E	examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received. Its have been received in Apority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	ummary (PTO-413))/Mail Date				
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of In 6) Other:	formal Patent Application ·				

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DETAILED ACTION

1. Claim 20 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In particular, the recitation "generating the first pseudo-random value from a previously chaos-based pseudo-random value generated before the first chaos-based pseudo-random value" in claim 20 is not supported by the specification.

2. Claims 1-3,5-7 and 15-27 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Butler (6,678,707)

As per claims 1,15,16,18,19,21,26 and 27, Butler discloses in figure 8 a generation of a chaos-based pseudo-random sequence including defining a chaotic map (402-412) for generating a pseudo-random sequence of integer numbers in a certain interval, choosing a seed (the initial states) for the pseudo-random sequence of integer numbers, and generating numbers of the pseudo-rand sequence, defining a function (800) on the interval whose inverse has a plurality of branches and calculating numbers of a chaos-based pseudo-random sequence by applying the function to corresponding integer numbers of the of the pseudo-random sequence as claimed.

As per claims 2, 5,6,17,24 and 25, Butler disclose in col. 8, lines 18-20, the function being also exclusive-or function as that of the present invention and thus the inverse of the function has a number of branches equal to the largest bound of the interval.

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As per claims 3,7, 22 and 23 Butler discloses in figure 3 the chaotic map a truncated linear congruential generator.

3. Claims 4 and 8-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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- 4. Claims 13 and 14 are allowed.
- 5. Applicant's arguments filed on 07-05-2007 have been fully considered but they are not persuasive.

Regarding the rejection of claim 20 is rejected under 35 U.S.C. 112, first paragraph, it is respectfully submitted that the paragraph [54] discloses the generation a pseudo-random sequence of bits is easily repeated, mutatis mutandis, for generators of sequences of pseudo-random numbers. I does not discloses "generating the first pseudo-random value (with a chaotic map) from a previously chaos-based pseudo-random value generated before the first chaos-based pseudo-random value" as recited in the claims.

Regarding the rejection of claims 1-3,5-7 and 15-27 are rejected under 35 U.S.C. 102(e), it is respectfully submitted that Butler clearly discloses the random numbers are to be used in Cryptographic codes as recited in the claimed (see figures 9 and 10).

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6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

- 7. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D. Ngo whose telephone number is (571) 272-3731. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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09/19/2007